

IN THE SPECIFICATION:

Please replace the paragraph starting at page 20, line 22 and ending at page 21, line 10 with the following substitute paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

a'
FIG 1 shows a cross-sectional view of an example of a direct current motor with a concentrated winding and permanent magnets in accordance with the present invention. Part 1 is the yoke of the stator. Part 2 is one of the stator poles, which are magnetized alternatively North and South, and which is made of a segment of permanent magnet. Part 3 is the tip of a rotor tooth. Part 4 is the center part of the rotor tooth under the coils. Part 5 is the yoke of the rotor. Part 6 is the concentrated winding, wound around a rotor tooth. Part 7 is one of the segments or bars of the commutator. Part 8 is one of the brushes in contact with the segments of the commutator and which is used to feed the supply current to the armature winding.

Please replace the paragraph starting at page 38, line 8 and ending at page 38, line 14 with the following substitute paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

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When an isotropic soft magnetic material is used, it is also useful to make the cross-section profile of the center part of the rotor and stator teeth under the coils, rounded, oval, or circular to get a reduction of the risk of destruction of the insulation by a sharp bending of the winding coils, and to maximize the copper filling factor. Figure 23 shows an example

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of circular, rounded and oval cross-section profiles (2310, 2320 and 2330, respectively) of rotor tooth 2300. Figure 24 shows an example of stator teeth 2400 and stator coils 2410.

Please insert the following new paragraph on page 12 after line 25 and before page 13 line 1.

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Figure 23 are rounded, oval, and circular cross-sectional profiles of rotor and stator teeth.

Please insert the following new paragraph directly after the new paragraph described above.

Figure 24 is a stator tooth wrapped with a stator coil.

IN THE CLAIMS:

Please amend Claims 1, 4, 15, and 16 to read as follows. A marked-up copy of the amended claims, showing the changes made thereto, is attached.

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1. A direct current motor comprising:

a stator with 2P poles;

a rotor core, including a core of ferromagnetic material having S slots and S

teeth separated from the stator core by an airgap;